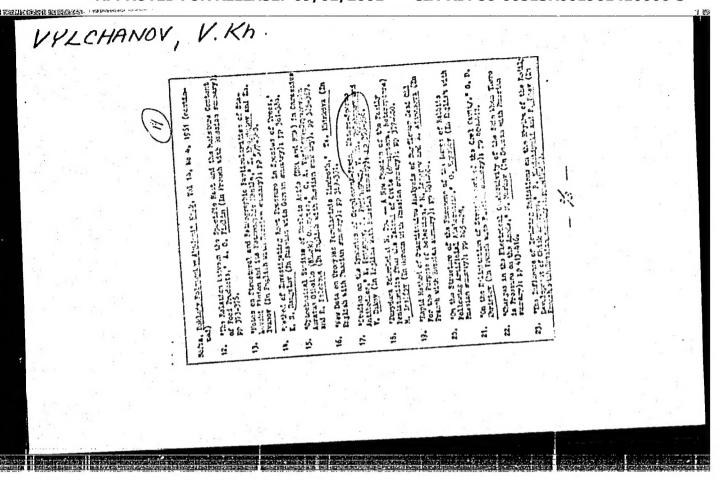
		·	Rev.	Lewed	Dy V.	Trr	10.2.					pern. 49-150 (M	Ag '61. IRA 15:3	) .	
			1.	Inst	itut m	ikrobi	Lologi	Li Bolg	garako (ATIO)	oy Akad N)	demii r	nauk, S	ofiya.		
							(A)	LPERN	, D.B.	•/					
ri e i i				. 100								1 17			
									:						
	4														
	:														

VYLCHANOV, BULGARIA / General Problems of Pathology. Immunity. : Ref. Zh.-Biol. No. 2, 1958, No 7575 As Jour : Vylchanov, V. Kh., Ruschukliev, Y. Author Belleving to the state of the Inst 1 The Influence of a Physical Load on the Non-Specific Pha-Title gocytic Reaction of the Bhood. : Isv. IN-TA, Biol. Blg, AN, 1956, 7, 209-229 Orig Pub : The intensive physical load on the ergometer bicycle for a Abstract period of 50-40 min. (30,000 - 40,000 kg/m) caused a diminution of phagocytosis (lasting 30 min. to several hours) to 48% of the initial level in 15 healthy subjects of from 19 to 24 years of age. The depression of phagocytosis was more pronounced and more prolonged in untrained subjects. During the application of an intensive physical load "a myogenic" 1/2 Card



## VYLCHANOV, V.Kh.; POPIVANOV, R.

CHEROTICAL DESIGNATION DESIGNATION DESIGNATION DE CONTROL DE CONTR

Data demonstrating the antigenic relationship between Salmonella Data demonstrating the antigenic relationship bottom. 52 no.10: typhi and human leucocytes. Biul. eksp. biol. i med. 52 no.10: (MIRA 15:1) 89-92 0 161.

1. Iz Instituta biologii imeni Metodiya Popova Bolgarsko; akademii nauk i kafedry obshchey biologii Vysshego meditsinskogo instituta, Sofiya. Predstavlena deystvitel nym chlenom AMN SSSR. N.N.Zhukovym-Verezhnikovym. (LEUCOCYTES)

(ANTIGENS AND ANTIBODIES)

	Gra	phite el	ectrode the el	s with	de bu	tective tts. St	ali 24	ngs and no.716	prob. 15-617		64. RA 18:1	)	
	1. 1	Metallur	giches	iy za	vod i	e. Leni	ina, Na	rodnaya	Respu	blika l	Bolgari	yn.	
		the stage of the											
			1.0										
					1								
	1				1 1								
											•		
					•								
*			1,										
						4.							

EULGARIA/Chemical Technology - Leather. Fur. Gelatin. Tanning

H-35

Agents. Industrial Proteins.

Abs Jour

Ref Zhur - Khimiya, No 24, 1958, 83930

Author

Vylchev, B.

Inst

. Titulot, D.

Title

The Utilization of Precipitates in Solutions of Vegetable

Tanning Agents.

Orig Pub

Leka promyshlenost, 1957, 6, No 3, 9-14

Abstract

The factors causing the formation of precipitates in tanning solutions and their influence on tanning process were examined. This is especially important for blands of solutions because therein mutual peptization reactions might take place. Therefore a careful selection of blend component, is essential and in the case when the solution in transferred from one tank into another, not less than 24 hours should be allowed for its settling. A blend of tanning agents producing large amounts of precipitate must

Card 1/2

- 82 -

Card 2/2

VYICHEV, I. (Bolgariya)								
	VIIIIII I	Chess.	Tekn.mol.	31 no.4135	163. (Chess)		(MIRA 16:6)	p.

AATCI	EV, Iv.			
		oteur put a source of riches.  My '6':  (Srioke)  rtilizors and manures)	Nauka 1 (MIRA 15:7)	

WYLCHEVA, R. I., Cand Tech Sc. -- (diss) "Study of chemical transformations of the macro-molecule of cellulose of cotton fiber under the effect of light." Mos, 1958. 13 pp; 4 separate stitched sheets of drawings (Min of Higher Education USSR, Mos Textile Inst), 120 copies (KL, 19 17-58, 108)

SADOY. I	F.I.; VYLCHEVA	, R.I.				
	Hetaat of 110	a describer of a	iber cellule 5 '58'.	08e. Izv.vy	s.uchab.zav.; (MIRA 12:4)	
	1. Moskovskiy	tekstil'nyy i (Cotton finish	nstitut. ing) (Ph	otochemistry	)	
			t			

Effect of light on cotton fiber cellulose. Report No.2. Isv.vys. ucheb.zav.; tekh.tekst.prom. no.1:132-136 '59.(MIRA 12:6)			
l. Moskovskiy tekstil'n (Textile chemist: (Sola	yy institut. ry) (Cotton finishing) r radiation)		
		ī	
		,	
		·	

# VYIECZHANIN, A.F. Skin ulcers and abscesses in fishes. Veterinariia 42 no.12: 34-36 D '65. (MIRA 19:1) 1. Astrakhanskiy tekhnichenkiy institut rybnoy promyshlennosti i khozyaystva.

VYIMOZHANIK, A.F., kand. vet. nauk.

Veterinary inspection of fish. Veterinarlia 35 no.6:41-43 Jul 58.

(MIRA 11:6)

1. Dagestanskiy seliskokhozyaystvennyy institut.
(Hishery products inspection)

### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410006-3

FD-1320

VYLEG-ZHANIN, A.F.

USSR/Medicine - Veterinary

**以供证的证据证明证据证明的证明的证明的证明证明证明 例 不是他也会不能** 

Card 1/1

Pub 137-20/22

Author

: Vylegzhanin, A. F.

: Carriers of paratyphoid bacteria among slaughtered cattle 

Title

: Veterinariya, 9, 57-58, Sep 1954

Abstract

Periodical

: Low resistance to disease has been observed in cattle that were brought up on farms where, due to poor soil, grasses are deficient in mineral content. Such cattle are more apt to be carriers of typhoid bacteria than those that have been well fed and properly taken care of. This conclusion was reached after serological and bacteriological examination of meat from 1,450 slaughtered cattle from farms of various regions. This study was prompted by the fact that meat of apparently healthy cattle may harbor bacteria that cause food poisoning in people and it is impossible to subject all slaughtered cattle to bacteriological examination.

Institution : Dagestan Agricultural Institute

Submitted

VILEGZHANIN, A.F.

USSR/Microbiology - Sanitary Microbiology

F-3

Abs Jour

: Referat Zhurn - Biol. No 16, 25 Aug 1957, 68527

Author

: Vilegzhanin, A.F.

Title

Influence of Animal Starvation on the Seeding of

Carcasses and Internal Organs by Intestinal Microflora.

Orig Pub

: Tr. Dagestansk. S.-Kh. In-ta, 1956, 8, 79-80

Abstract

: The experiments were conducted on 33 heads of large horned cattle held without feeding for 2-168 hours and longer prior to slaughter. The bacteriological examination of carcasses and internal organs was conducted for coliaerogenes and paratyphus flora by the OST 36 method using storage media. The minimal seeding was observed in animals who were starved 24 hours, and from 48 hours of starvation on it gradually increased. The internal organs of animals starved for 168 hours were seeded by coliaerogenes microbes in 100% of the cases. In carcasses of animals starved for 2-48 hours paratyphoid microbes were not

Card 1/2

- 38 -

## VYLEGZHANIN, A.I. Diagnostic and prognostic significance of the Aschhein-Zondek reaction in hydatid mole and chorionepithelioma. Akush.gin., Moskva. No.4:24-29 July-Aug 51. 1. Doctor Medical Sciences (Kiev).

### WYLEGZHANIN, A.I.

Hypertension and pregnancy. Akush. gin. no.6:7-13 Nov-Dec 1952. (CIML 23:4)

1. Doctor Medical Sciences. 2. Of the Department of Pathology of Pregnant Women, Ukrainian Institute of Clinical Medicine (Director -- Academician N. D. Strashesko, deceased), Kiev.

WYINGZHANIN, A.I., BONDAR, O.P.

OHEOPERATURATURATURATURAN PARAMENTARIA PERATURAN PERATURAN PERATURAN PERATURAN PERATURAN PERATURAN PERATURAN P

Treatment of persistent vomiting in pregnancy. Akush. gin. no. 1: 32-35 Jan-Feb 1953.

1. Doctor Medical Sciences for Vylegshanin, 2. Of the Department of the Pathology of Pregnant Women, Ukrainian Institute of Clinical Medicine (Director - Academician E. D. Strashesko, deceased).

CIA-RDP86-00513R001961410006-3" APPROVED FOR RELEASE: 09/01/2001

### "APPROVED FOR RELEASE: 09/01/2001

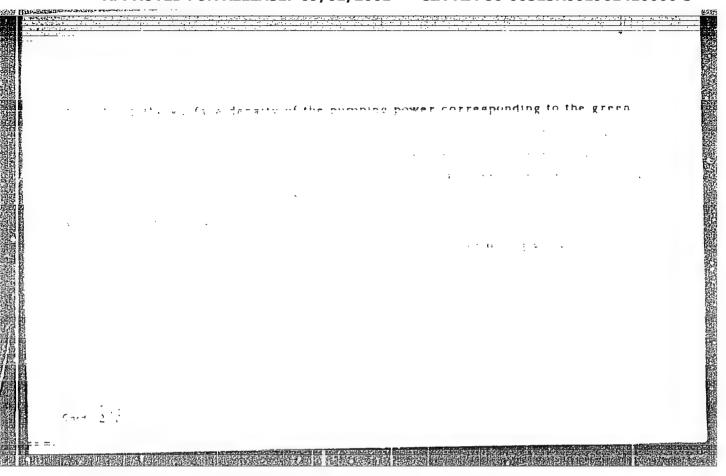
CIA-RDP86-00513R001961410006-3

VYLEGZHANIN, D.N.; ZELIKMAN, M.Kh.

Threshold of the generation of a ruby laser taking into account pumping energy dissipation in the crystal. Radiotekh. 1 elektron. (MIRA 18:6)

10 no.6:1147-1150 Je 165.

T. 50,77-05	ENA(E)/FED/ENG(T)/ENT(1)/ENF(E)	)/ENT(m)/EEC(k)-2/ENF(1)/EEC(t)/T	
		•	
	• .		
SC. CRCF	Hart this tyle #A convert on each	8 205 1.45	
TOPIC TA	IS liser laser pumping uses	r pumping energy of the game	
8-16		Ar Lu	
	$P_{d} = \frac{a(mn + mn)(c) v_{s} v_{n} v_{s} v_{s$		I
	15 154		
			28 8 D 40 75 F



### "APPROVED FOR RELEASE: 09/01/2001

### CIA-RDP86-00513R001961410006-3

WE/WG/JD/JG EEC(k)-2/EWP(k)/EWT(1)/EWT(m)/T/EWP(1)/EWP(e)IJP(c) SOURCE CODE: UR/0181/66/308/004/1269/1271 ACC NR: AP6012499 421 AUTHOR: \_Vylegzhanin, D. N. B ORG: Physicotechnical Institute, Moscow (Fiziko-tekhnicheskiy institut) TITLE: Phenomenological calculation of the probabilities of spin lattice relaxation of chromium ions in corundum / SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1269-1271 TOPIC TAGS: spin lattice relaxation, chromium, corundum ABSTRACT: The author compares the quantum mechanical method for calculating the Hamil tonian of spin lattice interaction with the phenomenological method for calculating the Hamiltonian of spin phonon interaction as a means of determining the probabilities of spin lattice relaxation of trivalent chromium ions in Al203. The formulas derived are used for calculating the relaxation probabilities for corundum in a constant magnetic field of 4000 gauss directed perpendicular to the axis of the crystal. The resultant data show close agreement. Orig. art. has: 1 table. OTH REF: 001 ORIG REF: 002/ SUBH DATE: 190ct65/ SUB CODE: 20/ Cord 1/1 (1C)

### VYLEGZHAHIN, F.A.

1831 到江北市经历1855年1955年1955年1956 1956年1 1956年1 1956年1955年1956年1956年1956年1956年1956年1

Mechanization and automatization of production processes in assembly shops. Mashinostroitel\* no.8:9-14 kg \*59. (MIRA 12:11)

1. Glavnyy tekhnolog Uralmashzavoda.
(Sverdlovsk--Machine tools) (Sverdlovsk--Automatic control)

25(5)

80V/117-59-8-14/44

AUTHOR:

Vylegzhanin, F.A., Chief Technologist

TITLE:

The Mechanization and Automation of Work Processes in

the Machine Assembly Shops

PERIODICAL: Mashinostroitel\*, 1959, Nr 8, pp 9-14 (USSR)

ABSTRACT:

mechanization measures in the Efficiency and assembly shops of the Uralmashzavod are described. They include "group processes" of S.P. Mitrofanov. The following equipment is listed: multiple-spindle drilling heads, a device for the rounding off and grinding of convex and concave spheres, used on lathes (Figure 1); hydraulic copying lathe supports; hydraulic clamps for attaching work on machine tools; pneumatic vices on milling and drilling machines; pneumatic self-centering turret lathe chucks; a special device for the mechanical cleaning of bolts (Figure 2), a pneumatic device for compressing the hook springs of drilling rigs

Card 1/3

DESCRIPTION OF THE PROPERTY OF

SOV/117-59-8-14/44

The Mechanization and Automation of Work Processes in the Machine Assembly Shops

(it consists of a table, four supports, two pneumocylinders and a guiding ring); a pneumatic wrench (Figure 4); a pneumatic wrench for the "M64" nuts for the assembly of springs on crushers, with maximum torque of 25 thousand kg/cm (Figure 5); a pneumatic device for pressing the terminals onto cable ends (Figure 6); shears for cutting out gaskets of different shapes (Figure 7). Much work has been done at the plant to create its own specialized transfer and semiautomatic machine tools. Two examples are listed: a six-spindle machine for drilling in drilling rig parts (Figure 8); a vertical semiautomatic drilling machine for flanges. The table of this machine permits automatic division into 4, 6, 8, 10, 12 drill hole spaces. Nonautomatic division is possible into 2,3,5 spaces. Machine tools of old types are being modernized to increase their power and speed.

Card 2/3

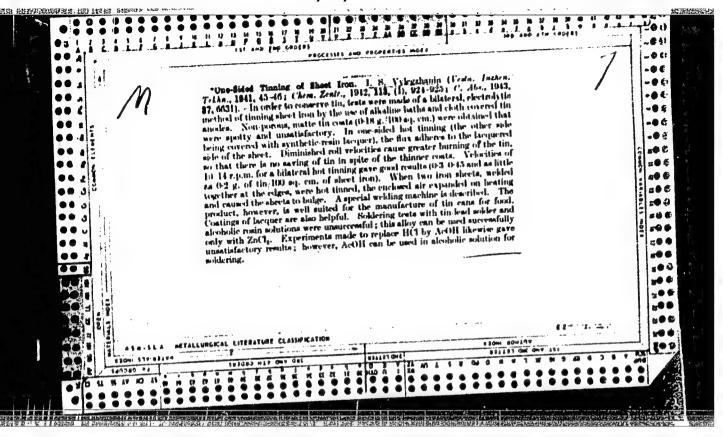
SOV/117-59-8-14/44

The Mechanization and Automation of Work Processes in the Machine Assembly Shops

The paths of vertical boring and turning machines and planing machines are being lined with "ZAM" alloy or textolite. There are 5 diagrams and 4 photos.

ASSOCIATION: Uralmashzavod.

Card 3/3



USSR / Farm Animals. General Problems.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54674.

Author ; Yylegzhenin, M. Z.

Inst : Not given.

Title : Changes in the Activity of Carbonic Anhydrase

of the Blood in Farm Animals in Relation to Age.

Orig Pub: Tr. In-ta biol. Ural'skiy fil. AN SSSR, 1957,

vyp. 4, 78-83.

Abstract: The carbonic anhydrase of the blood of cattle,

horses, swine and dogs was studied. The highest activity of the carbonic anhydrase in cattle was observed at the age of three months (4.44 units) and at the age of eight years (4.91 units); the lowest - at the age of two years (1.85 units). The activity of the carbonic anhydrase does not depend directly on the number of erythrocytes and on the Hb content of the blood. The author

Card 1/2

1

mum activity (0.21-0.35) at the age of 2-7 days. The carbonic anhydrase in horses of all ages was characterized by a very low activity and was comparatively less variable in relation to age.

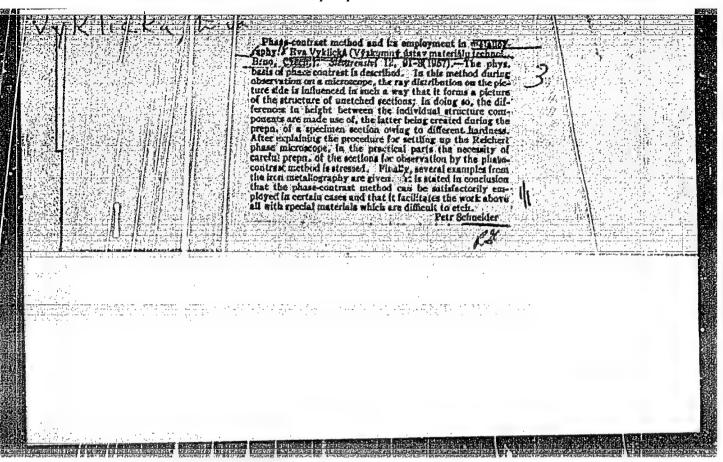
APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3"

Card 2/2

Willermann, M. Z.

"Garbonic Anhydrase Activity in the Flood of Domestic Infraint" Sand
Biol Sci, Ural State U, Swerdlowsk, 1953. (RZhElol, No. 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SC: Sum. No. 566, 24, Jun 55



### "APPROVED FOR RELEASE: 09/01/2001

在1941年的1960年的1950年的

CIA-RDP86-00513R001961410006-3

NOVOTNY, I.; VYSKOCIL, F.; VYKLICKY, L.; BERANEK, R.

Potassium and caffeine induced increase of oxygen consumption in frog muscle and its inhibition by drugs. Physiol. Bohemoslov. 11 no.41277-284 162.

1. Institute of Zoology, Charles University, Prague; Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

(TISSUE METABOLISM) (POTASSIUM) (CAFFEINE)

(MUSCLES) (PHYSOSTIGMINE) (PROCAINE)

(PHENOBARBITAL)

SKORPIL, V., Dr.; VYKLICKY, L., Dr.

Hemibalism. Cesk. neur. 19 no.2:130-134 May 56.

1. Z neurologicke kliniky v Plzni, prednosta prof. Dr. V. Pitha.
(CHORNA,
hemibalism (Cz))

VYKIJCKY, L.

CZECHOSLOVAKIA/Human and Animal Physiology. Neure-Muscular

Physiology.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36802.

Author : Vyklicky, L., Katslovia, J.

Inst

Title

: Data of Electromyographic Investigation of Some Masti-

catory Muscles under Physiological Conditions.

Orig Pub: Ceskosl. Stomatol., 1957, No 2, 39-46.

Abstract: EMG's of masticatory muscles at a rate 125 cm/sec

were investigated. The mean duration of the action potentials averaged 5.3 msec for the temporal muscle, 4.6 msec for the masseter, 4.3 msec for the internal pterygoid muscle during the closing of the jaws, and 4.7 msec during mastication. The mastication muscle

Card : 1/2

```
SCHWARTZOVA, K., Dr.; VYKLIGKY, L., Dr.

Polyneuritis in hematoporphyrinuria. Cesk. neur. 20 no.3:
188-194 May 57.

1. Meurologicka klinika v Plzni, prednosta prof. Dr. V. Pitha.
(FORPHYRINS, in urine
hematoporphyrinuria, with polyneuritis, electromyography
(Cs))
(FOLYNEURITIS, diag.
electromyography in case with hematoporphyrinuria (Cs))
```

VYKLICKY, L.

SANTIS, S.: VYKLICKY, L.

Central form of Recklinghausen's diseases with multiple seningionas.

Cesk. neur. 20 no.5:335-341 Sect 57.

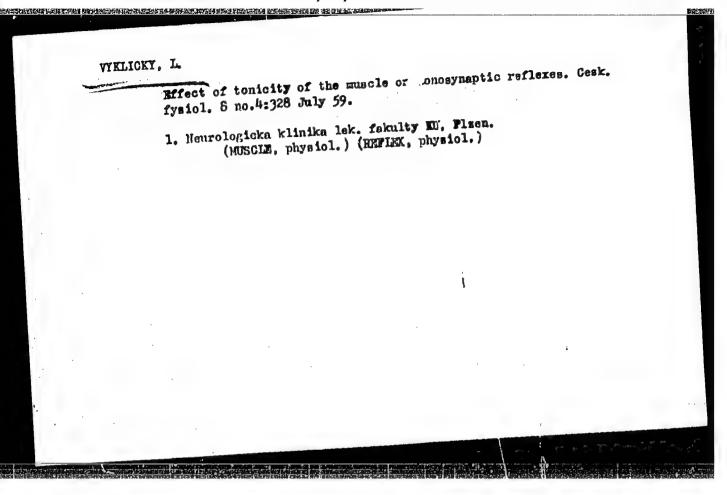
1. Histologicka laborator (ysiolog, odd. biologickeho untavu CSAV sychiatr. lecebna v Dobranech Haurologicka klinika v Plani.

(HEUNOYIRROMATOSIS, compl.

(HENINGIOMAS, compl.

Taltiple with neurofibrosatosis (is.))

Syndrom Canalis Carpi. Cesk. neur. 21 no. 3:211-215 May 58.						
(WRIS!	ka klinika v Plzni, prednosta prof. Dr. V. P. Pit'ha. F, dis. edian nerve lesion in carpal tunnel, case reports (Cz))					
(NERVES, MEDIAN, dis. lesions in carpal tunnel, case reports (Cz))						
	1					
,						



WYKLICK' Leastivity to electrical stimulation of mixed peripheral nerves of the upper extremity in man. Cesk, fysiol. 9 no.1:64-65 Ja 60.

1. Neurologicka klinika KU. Plsen.
(IRNOUS SISTEM physiol.)
(XLECTRONYOGRAPHY)

 SKORPIL, V .; VYKLICKY, L. ...

Effect of largactil on the BMG in lesions of the motor system. Cesk. neur. 23 no.1/2:38-42 Ja \*60.

1. Neurologicka klinika v Plzni, prednosta prof. V. Pitha.
(CHLORPROMAZINE pharmacol.)
(MOVEMENT DISORDERS diag.)
(ELECTROMYOGRAPHY)

CERTAIN CONTROLL OF THE PROPERTY OF THE PROPER

HNIK, P.; BERANEK, R.; VYKLICKY, L.; ZELENA, J.

Sensory outflow from chronically tenotomized muscles. Physiol. boliemoslov. 12 no.1:23-29 '63.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague. (TENDONS) (MUSCLES) (ELECTROPHYSIOLOGY)

BERANEK, R.; INNIK, P.; VYKLICKY, L.; ZELENA, J.

Facilitation of the monosymaptic reflex due to long-term tenotomy. Physiol Bohemoslov 10 no.6:543-552 '61.

1. Institute of Physiology, Czechoslovak Academy of Sciences, Prague. (TENDONS physiol) (REFLEX)

VYKLICKY, L., LEDINSKY, Q.

Electromyographic findings in pressure paralysis of the ramus volaris of the hand and a contribution to surgical treatment. Cesk. neur. 24 no.3:147-151 My 61.

1. Neurologicka klinika KU v Plzni, prednosta prof. dr. V. Pitha Neurochirurgicke oddeleni I. chirurgicke kliniky KU v Plzni, prednosta doc. dr. K. Domansky.

(ULMAR NERVE diseases) (ELECTROMYOGRAPHY)

CIA-RDP86-00513R001961410006-3" APPROVED FOR RELEASE: 09/01/2001

L 2019-66 -ACCESSION NR: AF5027366

CZ/0053/65/000/001/0001/0013

AUTHOR: Vyklicky, L.

TITLE: Presynaptic inhibition

SOURCE: Ceskoslovenska fysiologie, no. 1, 1965, 1-13

TOPIC TAGS: neurology, central nervous system, reflex activity

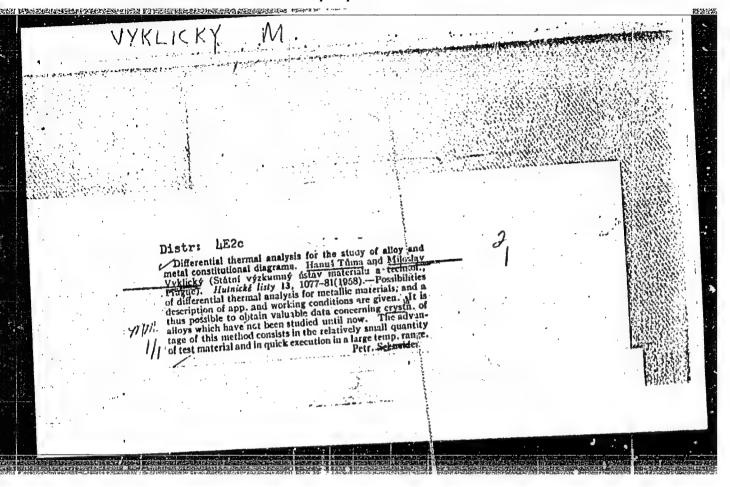
Abstract: Presynaptic inhibition in relation to activity of the CNS is discussed. The influence of polarization of the terminals of nervous filaments upon the amplitude of the action potential, and its postsynaptic effect is described. Methods of studying presynaptic inhibition in the spinal cord, changes in potential on the surface of the spinal cord after excitation of afferent fibers of group Ia, potentials and reflexes of dersal roots are discussed. Testing of excitability of muscle filaments of afferent fibers, presynaptic inhibition of afferent fibers of flexural reflex, supraspinal regulation of presynaptic inhibition are evaluated. Intraspinal pathways leading to reflexes causing depolarization of primary afferent filaments are described.

Card 1/2

# "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3

CE	381	ON	HK O	: AP C di tand	5027 'uga	366 01	, 1 p: the	pres pres	nspt: syna	lo in ptio	nhibi inhi	ltion lbiti	, en	id the	e ph Lecu	ysio ssed	10-	0		
dé		ırt.	. h	as 10	) fi	gur	88.									4		 • •		
80	CI	TI	ONI	Fy	510 <b>1</b>	ogı	cky	ustar	CSA	V, Pr	ague	(Physi	lolog	ical I	noti	tuta	CSAV	)	-	
						- '										SUB C	ODE	LS		
					•	:	*			. 0	THER:	089	•		٠.	jprs				
																•			* 1	
																			,	
	,		. :											•		:			,	:
	-	•		Q,	:.		-									•	. !		,	
	CE C11 Ca. Lg SSO	CESSI fluer cal rig. :	fluence cal imp rig. art. SOCIATION JBHITTED	CESSION HR fluence o cal impor- ig. art. h  SSOCIATION:	CESSION HR: AP fluence of dr cal importance ig. art. has 10 SOCIATION: Fys JBHITTED: 090c	CESSION MR: AP5027 fluence of drugs cal importance o	CESSION MR: AP5027366 fluence of drugs or cal importance on dg. art. has 10 figure SECCIATION: Fysiology JBHITTED: 090ct64	CESSION HR: APSO27366 fluence of drugs on procal importance on the dig. art. has 10 figures. SCOCIATION: Fysiologicky BHITTED: 090ct64	CESSION HR: AP5027366 fluence of drugs on presyncal importance on the preside, art. has 10 figures. SCOCIATION: Fysiologicky ustan	CESSION HR: AP5027366 fluence of drugs on presynaptical importance on the presynaptics art. has 10 figures.  SCOCIATION: Fysiologicky ustay CSA  BHITTED: 090ct64	CESSION MR: AF5027366 Cluence of drugs on presynaptic in cal importance on the presynaptic ing. art. has 10 figures.  SECCIATION: Fysiologicky ustay CSAV, Properties: 090ct64	CESSION HR: APSO27366 fluence of drugs on presynaptic inhibital importance on the presynaptic inhibital art. has 10 figures.  SOCIATION: Fysiologicky ustay CSAV, Prague  ENCL:	CESSION HR: AP5027366 Cluence of drugs on presynaptic inhibition cal importance on the presynaptic inhibition ig. art. has 10 figures.  SOCIATION: Fysiologicky ustav CSAV, Prague (Physioshite): 090ct64  ENCL: 00	CESSION HR: APSO27366 Cluence of drugs on presynaptic inhibition, are cal importance on the presynaptic inhibition and importance on the presynaptic inhibition, are called the communication of the communicat	CESSION HR: AP5027366 fluence of drugs on presynaptic inhibition, and the fluence of drugs on presynaptic inhibition are discal importance on the presynaptic inhibition are discal importance on the presynaptic inhibition are discal importance on the presynaptic inhibition, and the call importance on the presynaptic inhibition, and the call importance on the presynaptic inhibition, and the call importance of drugs on presynaptic inhibition, and the call importance of drugs on presynaptic inhibition, and the call importance on the presynaptic inhibition, and the call importance on the presynaptic inhibition, and the call importance on the presynaptic inhibition are disposed.	CESSION HR: APS027366 Cluence of drugs on presynaptic inhibition, and the photol importance on the presynaptic inhibition are discussed, art. has 10 figures.  SECCIATION: Fysiologicky ustav CSAV, Prague (Physiological Instigue CSAV)  ENCL: 00	CESSION HR: AP5027366 Cluence of drugs on presynaptic inhibition, and the physic fluence of drugs on presynaptic inhibition are discussed all importance on the presynaptic inhibition are discussed ig. art. has 10 figures.  SECCIATION: Fysiologicky ustay CSAV, Prague (Physiological Institute, BHITTED: 090ct64  ENCL: 00  SUB COUNTY 090ct64	CESSION MR: AP5027366 Cluence of drugs on presynaptic inhibition, and the physiclo- cal importance on the presynaptic inhibition are discussed.  ig. art. has 10 figures.  SCOCIATION: Fysiologicky ustay CSAV, Prague (Physiological Institute, CSAV  BHITTED: 090ct64  ENCL: 00  SUB CODE:	CESSION MR: AP5027366 Cluence of drugs on presynaptic inhibition, and the physiclo- cal importance on the presynaptic inhibition are discussed.  ig. art. has 10 figures.  SCOCIATION: Fysiologicky ustav CSAV, Prague (Physiological Institute, CSAV)  BHITTED: 090ct64  ENCL: 00  SUB CODE: IS	CESSION MR: AP5027366 Cluence of drugs on presynaptic inhibition, and the physiclo- cal importance on the presynaptic inhibition are discussed.  ig. art. has 10 figures.  SECCIATION: Fysiologicky ustay CSAV, Prague (Physiological Institute, CSAV)  ENCL: 00 SUB CODE: IS  DEMITTED: 090ct64  ENCL: 00 JPES

### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3



VyKLicky, M

Chemical Prod-CZECHOBLOVIKIA / Chemical Technology. ucts and Their Applications. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 31574.

Author : Vyklicky, M., Prenosil, B., Tuha, H.

: Not given. Inst

: Oxidation of Fe-Al-C Alloys. Title

Orig Pub: Hutnicke listy, 1958, 13, No 6, 490-496.

Abstract: The results of studying the oxidation of Fe-Al-C alloys, with a different content of Al and C at a tomperature range of 900-1500; , indicated that, after the initial uniform oxidation, some alloys subjected to analysis exhibited an anomalous (A) oxidation. In the A oxidation, blisters were formed on the surface of metals, due to the destruction of the initial protective film of ox-

Card 1/3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3" CZECHO3LOVAKIA / Chemical Technology. Chemical Prod- H ucts and Their Applications. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 31674.

Abstract: idation. In places where the blisters took place, oxidation proceeded faster than in the parent metal. It was established that, in the A oxidation, the usual laws pertaining to the development of protective oxidized films do not apply. The duration of the initial uniform oxidation is reduced by a temperature rise, an increased content of C in the alloys and a decreased content The metallographic investigations of the parent metal under the exidized film indicated that the destruction of the initially formed exidized film is connected with volume changes resulting from the transformation of the E-phase into the / -phaso. However, the transformation

# VYKLICKY, M.

Weldability of 17% chrome steel with titanium addition. p. 299.

ZVARANIE. (Ministerstvo hutneho prymyslu a rudnych bani a Ministerstvo strojarenstva)
Eratislava, Czechoslovakia. Vol. 8, no. 6, June 1959.

Monthly list of East European Accessions (EEIA) Vol. 9, no. 1, Jan. 1960.

Uncl.

### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001961410006-3

B-8 : Czechoslovakia COUNTRY CATEGORY ABS. JOUR. : AZKhim., No. 21 1959, No. 74215 AUTHOR : Yyklicky, M. and Tuma, H. : Rot given : Crystallization of Commercial Fe-Al-C Alloys in INTY. TITLE the & -Solid Sclution Region ORIG. PUB. : Hutnicki Listy, 14, No 2, 118-127 (1959) : Offerential thermal analysis and metallographic analysis were used in the investigation of the ABCTRACT phase diagram of the dystem Fe-Al-C in the region 15-30% Al. X -solid solution was found throughout the temperature range investigated, and in the presence of C the & -phase, graphite, and Al, C, were also observed. From authors' summary CARD: 1/1

 CZECH/34-59-8-11/16

Isolation of Structural Components in Fe-A1-C Alloys

adequate for the entire range of the chemical composition of specimens in which the sought structural components (primarily the &-phase) occur. For isolating the aluminium carbide Al4C3, which dissolves in water, an isolation method was evolved which which was based on dissolving the metallic component of the alloy in a waterless solution of bromine in metal acetate. There are 8 figures, 5 tables and 5 references, of which 1 is English and 4 Czech.

Státní výzkumny ústav materiálu a technologie, Praha (State Research Institute for Materials and Technology, ASSOCIATION: Prague)

Card 2/2

an karangserage kukarang kabangserake kija pada pada - """

18.1130

z/034/60/000/09/001/004 E073/E535

AUTHOR:

Vyklický, Miloslav, Engineer

TITLE:

Stainless Austenitic Chromium-Nickel Steels with

Molybdenum and Copper

PERIODICAL: Hutnické listy, 1960, No.9, pp.671-679

Classical austenitic steels (of the 18/8 type) are unsuitable for operation in certain branches of the chemical indus:ry where sulphuric acid occurs in various concentrations. Due to price and scarcity under Czech conditions, steels with high contents of chromium and nickel (of the type containing 21% Cr, 38% Ni, 5% Mo) cannot be used on a large scale. of the author, therefore, was to verify the possibility of using economy austenitic alloy steels containing Mo and Cu as a substitute for the above mentioned type of high alloy steel. In the first part of the paper literary data on the influence of Mo and Cu on the properties of austenitic Cr-Ni steels are summarised. Published results indicate that Mo and Cu have a favourable influence on the behaviour of austenitic steels, particularly in media containing sulphuric acid. Pospisil (Ref.1) found that in

Card 1/4

other menoral and a language and the second of the second

81797 Z/034/60/000/09/001/004 E073/E535

Stainless Austenitic Chromium-Nickel Steels with Molybdenum and Copper

hydrochloric acid addition of molybdenum to steel brings about a worsening of the corrosion behaviour of the steel, however, at higher nickel contents addition to molybdenum improves the In the experiments resistance to corrosion of Cr-Ni steels. described in this paper eleven heats were produced by means of a 20 kg high frequency furnace with an acidic lining. Since, according to literary data the optimum chemical composition of such alloys from the point of view of corrosion resistance lies between 18 and 25% Cr and 18 and 25% Ni, a steel of the type containing 24% Cr and 18% Ni was chosen for the experiments, using various quantities of Mo and Cu additions. A second group of favourable results were obtained on steels containing 18% Cr and 8% Ni with various Mo and Cu additions. The full chemical compositions of the melts from which the specimens were made are entered in Table 5. In the experiments the Czech steels ČSN N7 252 (Poldi AKOR) and ČSN 17345 (Poldi AKV Extra) in the as-cast and in the worked condition were used as reference

Card 2/4

# z/034/60/000/09/001/004 E073/E535

Stainless Austenitic Chromium-Nickel Steels with Molybdenum and Copper

Main attention was paid to resistance to corrosion in hydrochloric acid of 5, 15 and 20% concentration at room The results obtained temperature and 5% concentration at 80°C. for specimens after a testing time of 480 hours are plotted in Following the laboratory experiments, semi-production scale experiments were continued on steels of two composition of the types Cr24Nil8Mo2Cu4 and Cr18Ni8Mo2Cu4, respectively. The first of these was chosen on the basis of the laboratory results, the second was chosen primarily on the basis of published data. The chemical analyses of the steels used in these The results are described experiments are entered in Table 4. in considerable detail and can be summarised thus:

1) Both alloys can be hot and cold worked; 2) the mechanical properties of both alloys do not differ greatly

from those of current grades of austenitic 18/8 steels;

3) the resistance to corrosion of the alloy of the type Cr21Ni18Mo3Cu4 in the investigated media, primarily in H2SO4 and

Card 3/4

是其他中华的特别的政治的代码和"特别的主义"的对于大学的特别的对于大学的主义,是对于"大学",不是一个一个

81797 Z/034/60/000/09/001/004 E073/E535

Stainless Austenitic Chromium-Nickel Steels with Molybdenum and Copper

HCl, were better than or equal to those of the considerably higher alloyed material of the type Cr21Ni38Mo5.5 (ČSN N7 252 - Poldi AKOR). The alloy of the type Cr18Ni18Mo2Cu3 proved to have a better resistance to corrosion in a number of media than the at present marketed steel Cr18Ni8Mo2 (ČSN 17 345 - Poldi AKV at present marketed steel Cr18Ni8Mo2 (ČSN 17 345 - Poldi AKV extra); according to literary data, the composition of the alloy Cr21Ni18Mo3Cu4 is such that it is not prone to intercrystallite Cr21Ni18Mo3Cu4 is such that it is not prone to intercrystallite corrosion. There are 20 figures, 10 tables and 13 references; 5 Czech, 5 Soviet and 3 English.

ASSOCIATION: Státní výzkumný ústav materiálu a technologie, Praha (State Research Institute for Materials and Technology, Prague)

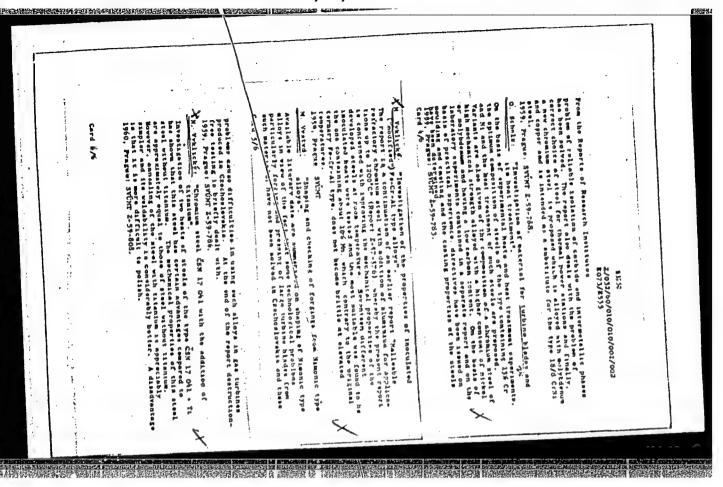
SUBMITTED: June 9, 1960

Card 4/4

W

		og al (In)	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1300	P. Khal	B. Parak Dotailer methods Missonic literat	AUTHOR: TITLE: PERIODIC	
William relations the process of heat treatment gene important problems relations of the treatment general problems relations to the parties. The triumnes of heat treatment general parties the chomism steels have been solved. The such ancient general gen	permers) with a re- que operation at each al- further applicate a (4) le (4) le at attain a (4) le (4) le attain a (4) le (4) le (4) le attain a (4) le (4) le (4	The results are described by the Department for Refractory and hard alloys gaterials developed by the Department for Refractory and hard alloys gaterials developed by the Department for Refractory and hard alloys gaterials developed by the Department for Refractory and hard alloys gaterials developed by the Department for Bard gaterials and hard alloys gaterials developed by the first ter bard gaterials developed by the second of th	emartears steet '	report relates to report the tree to remove the tree to remove the reserved to reserve the reservent the reserved to reserve the reserved to reserve t	temperature and also the use of a compete the primers of the temperature and the state that the method. The symmetry for a finite temperature and the symmetry of this method. The symmetry of this method. The symmetry of the method that the symmetry of the method the symmetry of the sym	have en 2 and 7% 1997 2-94-727. 1999, Prayet Stiff 2-94-727. 1999, Prayet	PERTITY of the development of quantitative enalytical necessity of the development of quantitative enalytical necessity of the development of quantitative enalytical necessity of the aluminum contents in methods for specifical determination of the aluminum contents method for specifical determination and an analytical sectod is prepared Humanic type high temperature and an analytical sectod is prepared to determining aluminum contents of the	AL: Stroitrenstri	In 501 4
seant (hodali-	y high temperatur of the alloy by thronium steel vith 2-59-806.	eintroduction of production; production; sarroduction; the operation the operation the operation of the oper	e adersable (DE) spend be se fine (C) raige of 700 to 30	THE CONTROL OF LA	ser of a camparation of a service of a servi	Thy. Serme deverte and the serme of the weeker sert and the serment of the sermen	e development of the a struction of the a struction of the a struction of the a struction of the struction o	Wone Given  From the Reports of Research Institutes  From the Reports of Research Institutes  Strojirenstwi. 1950, Vol.10. Me.10. Pp.797-795  Strojirenstwi. 1950; Vol.10. Me.10. Pp.797-795	8 X 2/032/69/ 8073/1535
the processal with a network of the second s	CSN 17 Ohl with	mey economy and cor nefractory a cor nefractory a mey materials and per materials and	The property of the Party of th	HOLE WITTOUT A LONG TO WATER OF WATER O	the method of selling the method for the workers equipment equipme	d by the included by the inclu	TARREST CORES TORREST MONTH CORES TORREST MONTH CORES TORREST MONTH TORRES TORREST MONTH TORRES TORREST TORRES	- 10. pp.:97-796	0 H54 2/032/69/910/010/003/003 2075/E575
perties the truck the truc	an addition	erials into	technolosy	Tor the	10 th	apere et	in trepend.	,	

#### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3



Z/056/62/019/008/003/007 1037/1237

**AUTHOR:** 

Vyklický, M.

PERIODICAL:

Přehled technické a hospodářske literatury. Hutnictví a strojírenství v. 19, no. 8, 467

abstract HS62-5930 (1960, Praha SVÚMT STK 129019)

TITLE:

Glow-resistant resistive materials of the type Fe-Cr-Al

TEXT: Tracing of glow-resistance of nine experimental melts of the type Fe-Cr-Al. Glow-resistance o. alloys of the basic type: Properties of the alloys, after the fire-resistance test. Tests of semi-conducting alloys! The influence of long lasting heating on the properties of semi-conducting alloys. Modified alloys of Fe-Cr-A and their mechanical properties; influence of long heating on the latter. The most suitable is the alloy containing over 17% Cr and about 5% Al. After long heating, the alloys having Mn and partly also Ni additivies, proved to be best. There are 2 photos, 6 microphotos, 19 diagrams, 10 tables, and 19 references From collection(p. 137-166). Materialovy sbornik (Material collection) 1960, Part II.: Glow-proof, glow-resistant and corrosion resistant steels and alloys.

[Abstracter's note: Complete translation.]

Card 1/1

## "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410006-3

s/137/62/000/009/019/033 A006/A101 Vyklický, Miloslav Iron-base scale and corrosion resistant welding alloy AUTHOR: Referativnyy zhurnal, Metallurgiya, no. .9, 1962, 78, abstract TITLE: 91478 P (Czechosl. Patent no. 100211 of July 15, 1961) PERIODICAL: A scale and corrosion resistant alloy is proposed having higher mechanical properties than the widely used Fe-Cr alloy (0.1% C) 17% Cr, 0.1% Cu, 25% Cr). It can be well machined and welded. The proposed alloy contains up to 0.4% C, 6 - 18% Mn, 25 - 35% Cr, the rest Fe. The microstructure of the alloy is mainly ferritic: carbides, 6- and γ-phases occupy ≤10% of the surface. The alloy is magnetic. Mechanical properties of the proposed alloy (0.1% C, 26% Cr, 10% Mn, the rest Fe) are compared with alloys being used at present. Contrary to the alloys in use (for instance with 0.1% C and 25% Cr) extended annealing at high temperatures (1,000°C, 300 hours) does not cause brittleness in the new alloy. Its properties can be improved by the addition of Ti, Nb and Zr, either separately or in combination to amounts up to 3%. The alloy is recommended for Card 1/2 5 3

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3

ron-base scale	and corrosio	on resistant welding alloy or cast working of furnace recuperator parts.	8/137/62/000/009 A006/A101 parts, and thermal		33
he production hermochemical	by pressure of processing of	recuperator parts.	Q. Rymashevskiy	. •	
Abstracter's	note: Comple	te.translation]	; ;		
•	•	•			
		r *			
			•		<b>\</b>
					` <u>`</u>
		•			•
			,		
Card 2/2					
	•	*	ı		

SELECTION BEAUTY SELECTION AND SELECTION OF SELECTION OF

Z/034/62/000/001/010/011 E073/E535

ARTHOR:

Vyklický, M., Engineer

THEFT

Heat and corrosion resistant iron-base alloy Czechoslovak Patent Application 18d, 1/30, PV 2567-61,

dated April 26, 1961

PERIODICAL: Hutnické listy, no.1, 1962, 64

The alloy is suitable for manufacturing equipment for the food processing industry, special furnace components etc. The structure of the alloy contains 20 to 60% of the austenitic phase. The subject matter of the invention is in the fact that the alloy contains a maximum of 0.2% C, 8 to 12% Mn and 18 to 20% Cr.

[Abstractor's note: Complete translation.]

Card 1/1

Z/034/61/000/003/010/011 E073/E535

(Vyklický, M., Engineer AUTHOR:

的现在分词,我们们是我们的对象,我们的对象,我们们的对象,我们们们的对象,我们们们的对象,我们们们的对象,那么是是一个人的对象,那么是是一个人的一个人的一个人的

Heat Resistant and Corrosion Resistant Iron-base TITLE

Patent Application Class 18d, 1/70 PV 7055-59, dated

December 5, 1959

PERIODICAL: Hutnické listy, 1961, No.3, pp.209-210

The alloy contains a maximum of 0.4% C, 6 to 18% Mn, 25 to 35% Cr and also additions totalling not more than 3% of Ti, Nb and Zr, separately or in any combination. The alloy is particularly suitable for manufacturing components of furnaces for heat and chemical-heat treatment of steel, components of recuperators etc., manufactured by forming or casting.

Abstractor's Note: This is a complete translation

Card 1/1

, jar = 15

Z/046/61/000/004/009/009 D007/D102

AUTHORS: Vyklický, M., Engineer, and Löbl, K., Engineer

TITLE: A contribution to the weldability problem of inexpensive chromo-nickel stainless steels with two phase structure

PERIODICAL: Zváračský sborník, no. 4, 1961, 496-503

TEXT: This paper lists mechanical properties of Ni-saving, stabilized, stainless, austenitic-ferritic Cr2lNi5Ti and Cr2lNi6Mo2Ti steels which were developed in the USSR to replace the classical CrNi and Ti-stabilized steels used for chemical equipment etc. Since these steel types can also replace the domestic C3N 17 246 (Poldi AKVS) and CSN 17 347 (Poldi AKV Extra S) steels, detailed mechanical and weldability tests were made in the CSSR. It was found that mechanical properties of these two-phase steels are strongly dependent on the Ni content, and that plastic properties improve with increasing Ni content. Compared with the classical Grl8Ni8Ti and Cr18Ni8-increasing Ni content. Compared with the classical Grl8Ni8Ti and Cr18Ni8-increasing Ni content. Welding tests were made on 1-, 3-, and 20-mm ties are about the same. Welding tests were made on 1-, 3-, and 20-mm

Card 1/2

Z/046/61/000/004/009/009 D007/D102

A contribution to the .....

sheets by the "arkatom" method (without filler material) or using E 391 electrodes, and mechanical properties of the weld metal were determined. Again, it was found that steels with higher Ni content have better ductility values, while steels with higher Mo content have somewhat lower ductilities, values, while steels with higher Mo content in the weld metal. These differdue to a zone of higher O-ferrite content in the weld metal. These differdue to a zone of higher O-ferrite content in the weld metal. These differences in ductility and Erichsen cupping values are most likely attributable to the total amount of austenite- and ferrite-forming elements in the heat, to the total amount of austenite- and ferrite-forming elements in the heat, e. heats with higher contents of these additions (higher V-phase content) also have better ductility and cupping properties. There are 2 tent) also have better ductility and cupping properties. There are 2 figures, 5 tables, and 2 Soviet-bloc references. (Technical Editor: Engineer J. Zeke of the VUZ Bratislava).

ASSOCIATION: SVUMT Praha (SVUMT Prague).

Card 2/2

2hJhh Z/034/61/000/008/001/005 E073/E335

| 8.115.0 AUTHORS:

Vyklicky, Miloslav, Löbl, Karel, Kabrhel, Adolf, Tuma, Hanus, Číhal, Vladimír and Prazák, Milan

Influence of Molybdenum and Copper on the Properties

TITLE: Influence of Molysdon of Stainless Chromium

PERIODICAL: Hutnické listy. 1961, No. 8, pp. 553 - 560

TEXT: According to data published in the literature (Ref. 2 - Copper in Cast Steel and Iron. Copper Development Association, London), high-alloy chromium steels containing 2-3% Si and 1.5-2% Cu have a high resistance to alum and are extensively used in the food-processing industry. An increased C content in chromium steels reduces their resistance to corrosion, particularly after unsuitable heat-treatment. However, low-carbon chromium steels cause difficulties in the manufacture of castings of complex shapes. Therefore, higher C contents are used and the unfavourable influence of the C content is compensated by adding Cu. Although the effect of Mo on chromium steels is known, the authors are not aware of any published information on the combined influence of Cu and Mo Card 1/8

21,11,1

Z/034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

This is in spite of on the properties of chromium steels. the fact that such steels are being manufactured, for instance the Czech steel Poldi-AKIBC (chemical composition: 0.12% C, 0.50% Mn, 0.25% Si, 16.15% Cr, 0.20% Mo and 1.75% Cu) and the ferritic chromium steel for use in the chemical industry, containing 0.6-0.8% C, max. 0.7% Mn, max. 2% Si, 28.0 - 30.0% Cr, 2.0 - 2.5% Ni, 2.0 - 2.5% Mo and 2.0% Cu. The authors considered it interesting to investigate the influence of Cu and Mo on the properties of chromium steel and this paper contains the results of these investigations. A total of 11 heats was produced with chemical compositions varying between the following limits: C 0.6 - 0.11%; Cu 0 - 6.11%; Cr 14.58 - 26.6% and Mo 0 - 3.91%. The heats were produced in a 20-kg high-frequency furnace, using as a charge low-carbon steel, low-carbon ferrochromium, low-carbon ferromolybdenum and copyer. Of the mechanical properties only the hardness was measured. In agreement with data published in the literature, heats with higher copper contents showed a higher hardness, both

Card 2/8

5/17/1

Z/034/61/000/008/001/005 E973/E335

Influence of Molybdenum ....

NO REPORT OF THE PROPERTY OF T

in the as-cast and in the annealed states; metallographic tests showed that addition of Cu brought about pronounced structural changes. The corrosion tests were carried out in a number of corrosive media, subdivided into the following groups:

- A. Media with free SO<sub>2</sub>

  - 1. H<sub>2</sub>SO<sub>3</sub>; 2%; 20 °C 2. NaHSO<sub>3</sub>; 5%; 20 °C
- Organic oxides

  - 20 °C 80 °C 80 °C lactic acid; 10%;
     oxalic acid; 10%;
     citric acid; 10%;
  - 80 °C

6. tartaric acid; saturated solution; 7. acetic acid; concentrated; 80 °C

Card 3/8

Z/034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

的理解和证明,让他实现是否以处理学者,但是是不是一种的证明,但是是不是一种的证明,但是是是一种的证明。

- Inorganic non-oxiding acids
  - 20 hydrochloric acid; 8%; 80 °C phosphoric acid; 65%;
- Inorganic Oxiding acids
  - 80 °C . 10. nitric acid; 65%;

A detailed analysis allowed grouping the time dependence of the weight loss due to corrosion into three basic groups: linear dependence (in hydrochloric acid and, in some cases, also in nitric acid at 80 C); parabolic dependence with steepness increasing with time (NaHSO3 solution) and, finally, corrosion rate decreasing with time and characterised by a curve which flattens out. The corrosion tests have shown that steel containing 25% Cr, 2% Mo and 2% Cu had the highest resistance to corrosion, which almost equalled the Czech steel CSN 17241. This type of steel was not investigated in the group of the 17% chromium steels. In the latter steel,

Card 4/8

211717

Z/034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

Mo improved the resistance to corrosion in solutions with free SO<sub>2</sub>, whilst Cu improved the resistance to corrosion in organic acids. On the basis of laboratory results, SONP Kladno produced two 50-kg heats in a high-frequency furnace with chemical compositions which proved the most favourable in the laboratory tests. The compositions of these heats (in %) were as follows:

Cu Mo CrSi Mn Heat 2.01 15.52 2.05 0.021 0.019 0.37 0.13 0.53 A 3829 1.75 24.75 0.54 0.30 0.026 0.017 0.10 в 3830

The ingots from both heats were forged into 250 x 600 x 20 mm blanks and then rolled down to 1 mm thick sheet. These hotrolled sheets were then used in mechanical and corrosion tests and in weldability tests. The most favourable heat-treatment for these steels proved to be the following:

Card 5/8

24144 Z/034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

Heat A ... 800 °C/0.5 hrs/air " B ... 900 °C/0.5 hrs/air.

The mechanical properties of thus heat-treated steels do not differ substantially from the properties of semiferritic steels containing 17% Cr (CSN 17041). After this heat-treatment, both heats proved satisfactory in double-bending tests; in Erichsen tests both heats achieved the value of 7.9 mm. Welding tests were carried out by arc-welding in an argon welding tests were carried out by arc-welding in an argon atmosphere; the weldability of Heat A was better than that of Heat B. Potentiostatic polarisation curves were determined to obtain information on the corrosion behaviour of the steels. The following conclusions were reached: Additions of 2% Mo and 2% Cu proved the most suitable. The resistance-to-corrosion of steels with 17% Cr, 2% Mo and 2% Cu is higher than the resistance-to-corrosion of the same type of steel without Mo resistance-to-corrosion of the same type of steel without Mo resistance-to-corrosion of Mo and Cu which, for most corrosive

Card 6/8

2/1034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

media, will have the same resistance-to-corrosion as the austenitic CrNi steel CSN 17241. According to the achieved results, the steel with the lower Cr content can be used for less aggressive corrosion media and in cases in which the steel CSN 17041 cannot be used owing to its lower resistance-to-corrosion or its poor weldability. Steel with a higher Cr content (Heat B) can be used as a substitute for the steel CSN 17241 but the plasticity and weldability of this material are not as good as those of steel CSN 17241. There are 17 figures, 7 tables and 12 references: 6 Czech and 6 non-Czech. The four English-language references quoted are: Ref. 1 - Loring - Metals Handbook, pp. 462 - 465; Ref. 2 - (quoted in text); Ref. 3 - Saklatwalla - Dammler, Trans. Am. Soc. Steel. Treat. 15, 1929; Ref. 4 - Daniloff - The Alloys of Iron and Copper. New York and London, 1934.

Card 7/8

5/17/1

Z/034/61/000/008/001/005 E073/E335

Influence of Molybdenum ....

Státní výzkumný ústav materiálu a technologie v

Praze (State Research Institute for Materials and Technology, Prague)
Státní výzkumný ústav ochrany materiálu
G.V. Akimova v Praze (G.V. Akimov

State Research Institute for the Protection of

Materials, Prague)

SUBMITTED:

ASSOCIATIONS:

November 28, 1960

Card 8/8

Z/032/62/012/001/007/007 E073/E335

18.1151

· yyklický, M. AUTHOR:

Heat- and corrosion-resistant Fe-Cr-Mn alloys

Strojirenství, v. 12, no. 1, 1962, 72 TITLE:

The report deals with the development of stainless PERIODICAL: and refractory Fo-Cr-Mn steel with a two-phase structure, which does not contain raw materials that are scarce in Czechoslovakia. TEXT: 15 laboratory heats, containing 13 - 23% Cr and 6 - 14% Mn, were produced. After forging to 20 mm dia rods, their heatresistance was closely studied at a temperature of 1 000 °C, the corrosion-resistance was studied in seven media and the mechanical properties were studied after forging, heat-treatment and after long-duration annealing. These results were supplemented by microstructural investigations of the alloys. It was found that in the investigated series of alloys, the steel Cr2lMn10, cast into 100-kg ingots, had the most favourable properties. After heat-treatment of 950 C/air-quench, this steel had considerably better mechanical properties than the Card 1/2

Heat- and corrosion-resistant ...

Z/032/62/012/001/007/007 E073/E335

hitherto-used Cr-base refractory and acid-resistant steel. Its corrosion-resistance does not differ from that of Cr or even from that of austenitic Cr-Ni steels. It has a satisfactory weldability. Research report Z-60-972, SVUMT, Prague, 1961. [Abstracter's note - this is a complete translation.]

Card 2/2

3/137/62/000/006/152/163 A057/A101

AUTHORS:

Vyklický, M., Löbl, K.

TITLE:

On the question of the weldability of economical chromium-nickel

stainless steels with a two-phase structure

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 5, abstract 6E32 ("Zvárač, sb.", 1961, v. 10, no. 4, 496 - 503, Czechoslovakian;

Russian, German and English summaries)

Results of mechanical tests of welded samples of steel Cr21 N15 T1 and Cr21 N15 Mo2, developed as substitutes of classical Cr-Ni-steels of the type 18-8, stabilized with Ti, are presented. See EI SVP, 1962, no. 14, ref. 57.

Ye. Greyl'

[Abstracter's note: Complete translation]

Card 1/1

BEAT TENERAL BURK PROTOTORY PROCESSES SERVED V. T.

# Z/032/62/012/004/006/007 E073/E335

AUTHORS:

Löbl, K. and Vyklicky, M.

TITLE:

Investigation of chromium and chromiun-nickel stainless

steels with a low carbon content (below 0.06% C)

Strojírenství, v.12, no. 4, 1962, 317 PERIODICAL:

The report deals with the technical aspect of manufacture, particularly using acid-resistant chromium and chromium-nickel steels with low (0.06%) and very low (down to 0.05%) carbon content in the chemical and food industries. The state of development of the manufacture and research of these steels outside Czechoslovakia has been investigated and laboratory and works testing of the properties of these Base material as well as welded material and the corrosion properties have been studied and tests were carried out on increasing the sensitivity to intercrystalline corrosion. The test mehtod has been developed in such a way as to permit comparison with steels having usual carbon contents. The obtained results are evaluated both

Card 1/2

Z/032/62/012/004/006/007 E073/E335

Investigation of ....

from the technical and economical points of view and the report lists possibilities of application of these steels in the Czechoslovak industry. Research Report Z-61-991, SVUMT, Prague, 1961.

Abstracter's note: this is a complete translation.

Card 2/2

CIA-RDP86-00513R001961410006-3" APPROVED FOR RELEASE: 09/01/2001

```
WKLICKY M. (Frantsiya); PLUGARZH, Ya. [Pluhar, J.] (Chekhoslovakiya);
WINLITSKIY, M. (Chekhoslovakiya); PRAZIAK, M. [Prazik, M.]
WINLITSKIY, M. (Chekhoslovakiya); CHIGAL, V.; KHEYSKANEN, K. (Finlyandiya);
SKIN, K.

Reports made at the Symposium on Stainless Steel. Metalloved.
(MIRA 15:5)
i term. obr. met. no.5:51-54 My '62.
(Steel, Stainless—Congresses)
```

5/129/62/000/005/010/011 E073/E335

18.1130

AUTHORS:

TITLE:

Vyklicky, M., Pražák, M., Číhal, V. (Czechoslovakia) Influence of alloying elements on the properties of austenitic stainless steels

Metallovedeniye i termicheskaya obrabotka metallov, PERIODICAL: no. 5, 1962, 52 - 53

By analyzing the potentiodynamic polarization curves the influence of molybdenum, copper, tungsten and silicon was investigated (individually and in various combinations) on the corrosion-resistance of Cr-Ni austenitic stainless steels, containing 18 - 22% Cr and 21 - 50% Ni. The polarization curves were recorded at room temperature for a 1 mole solution of hydrochloric acid with 0.01% KCNS added. The following were applied as a criterion of the resistance-to-corrosion: the width of the zone of immunity and the magnitude of the electrochemical potential. It was found that an increase in the nickel content within the investigated limits did not have an appreciable influence on the active state of type X20h5 (Kh20N5) steels,

Card 1/3

S/129/62/000/005/010/011 E073/E335

Influence of ....

elly des satisfactorisment and characters are a

alloyed with silicon, molybdenum and copper. The positive electrochemical potential increased with increasing contents of molybdenum and the range of immunity broadened. Copper had the same influence but to a somewhat lesser extent. Tungsten had no influence on the immunity range and increased only slightly the potential of the active range. After laboratory investigations, experimental heats were produced of the steel X24H20 (Kh24H20), which were alloyed with molybdenum and copper. Specimens of these heats were tested for corrosion-resistance in hydrochloric acid for durations of 480 hours. The steel alloyed with 5% Mo and 3.5% Cu showed the highest resistance-to-corrosion; it was higher than that of the steel type X21 58757 (Kh21N38M5T). Sheets 1 and 3 mm thick were produced from the new steel and tested in 14 different media, including hydrochloric and sulphuric acids, at various concentrations and temperatures. The resistance-to-corrosion of

Card 2/3

#### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3

Influence of ....

S/129/62/000/005/010/011 E073/E335

this steel in these media was considerably higher than that of the steel X1849M2 (Kh18N9M2) and slightly better than that of the steel X21-58-27 (Kh21N38M2T). The new steel is very stable against intercrystallite corresion.

Abstracter's note: this is a complete translation.

4

Card 5/3

27236

Z/034/61/000/010/002/002 1211.81 E073/E135

Vyklicky, M., Engineer, and AUTHORS:

Protiva, K., Engineer

Iron base refractory alloy. TITLE:

Patent application class 18d, 1/70, PV 5817-59

dated October 10, 1959

PERIODICAL: Hutnické listy, 1961, No.10, p. 745

The steel is intended for cast and hot or cold formed

components. It contains a maximum of 0.15% C, 10-30% Cr, 4-7% Al and 6-14% Mn. Further alloying additions are Ti, Nb and Zr, used individually or in any combination totalling up to 2%. Furthermore, it contains Ta in quantities up to 5%. The alloy is

particularly suitable for manufacturing resistance elements of a

variety of shapes. (Abstractor's note: This is a complete translation.)

Card 1/1

。 1. 1885年118日 - 1885年118日 | 1885年118日 |

## 2/032/62/012/005/004/004 E073/E535

Löbl, K. and Vyklický, M.

Economy stainless chromium-nickel steel with a two-AUTHORS:

phase (austenitic-ferritic) structure TITLE:

PERIODICAL: Strojírenství, v.12, no.5, 1962, 395

Technical report for engineering and chemical works containing information on new types of economy stainless Cr-Ni steels with possible additions of molybdenum for increasing the resistance to corrosion in the active state. For the chemical and food industries this steel can be stabilized with titanium. These steels are intended primarily as a substitute for the scarce austenitic steels CSN 17 246 and 17 347. They can be welded using the same technology and additional materials as for classical austenitic steels. They have a two-phase, i.e. austenitic-ferritic, structure and their yield point is "twice as high". The steels are resistant to inter-Steels with molybdenum can be used up crystallite corrosion. to 300°C and the steels without molybdenum up to 400°C. By Card 1/2

#### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3

Economy stainless chromium-nickel ... Z/032/62/012/005/004/004 E073/E535

speedy introduction of these steels it will be possible to achieve considerable savings of nickel.

Research Report Z-61-930, SVUMT, Prague, 1961

[Abstractor's note: Complete translation.]

Card 2/2

 Z/034/62/000/011/001/001 E073/E335

AUTHOR:

THE WHEET PLANTS OF THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PARTY OF THE P

Vyklický, Miloslav, Engineer

TITLE:

Chromium-manganese corrosion-resistant steel with a

two-phase structure

PERIODICAL: Hutnické listy, no.11, 1962, 786-801

To obtain a steel with satisfactory hot forming properties TEXT: a steel was developed which has a predominantly single-phase (ferritic) structure at elevated temperatures but contains a high percentage of the austenitic phase after cooling down. The system Fe-Cr-Mn was chosen primarily in view of the easy availability of 13 Laboratory heats with the alloying elements, Cr and Mn. chromium contents of 13 to 23% and manganese contents of 6 to 14% Two quasibinary were produced in the first part of the work. compositions with respective constant contents of 23% Cr and 11% Mn were chosen and the mechanical properties, refractoriness, resistance-to-corrosion and structural stability were investigated after various heat treatments. Up to 18% Cr improved appreciably the corrosion-resistance in the passive state; Mn did not greatly Card 1/3

Z/034/62/000/011/001/001 E073/E335

Chromium-manganese ...

Detailed investigations, on the affect the corrosion-resistance. basis of the results of the preliminary tests, were made on a steel with 0.1% C, 21% Cr, 10% Mn, 0.040% P and 0.035% S. A 100 kg ingot was produced from a heat of this steel in a chromium magnesite-lines high-frequency furnace. The ingot was forged and There was no difficulty at all then rolled into 1 mm thick sheet. during hot-forming (forging and rolling), the resistance-to-forming being less than for Cr-Ni austenitic steels. The optimum heattreatment from the point of view of the mechanical properties was: 1 mm sheet had the following 900 to 1000°C/air-cooling. properties after annealing at 900°C and air-cooling: UTS 77.0 kg/mm<sup>2</sup>; yield point  $44 \text{ kg/mm}^2$ ;  $5_{10} = 38\%$ ; the impact strength was always above  $10 \text{ kgm/cm}^2$ . Annealing in the temperature range 550 to 800°C produced appreciable embrittlement, caused by the decomposition of the ferrite, followed by formation of a brittle o-phase. Additions of V, Mo, Cu, Co and N did not appreciably affect the O-phase formation after annealing in the temperature range 550 to 700°C. Only N affected indirectly the quantity of the O-phase formed as a result of ferrite Card 2/3

Chromium-manganese ...

Z/034/62/000/011/001/001 E073/E335

decomposition. The weldability was very good; the mechanical properties of the welds were as good as the properties of the base material. The corrosion-resistance was equivalent to that of austenitic Cr-Ni steels, type Crl8Ni8. For active states nickel steels should be used. The steel studied had a high resistance-to-corrosion in organic acids; its resistance to intercrystallite corrosion was considerably better than chromium steels. There are 37 figures and 10 tables.

ASSOCIATION: SVUMT, Prague

SUBMITTED: December 29, 1961

Card 3/3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3"

39512

S/123/62/000/014/018/020 A004/A101

18.1100

Vyklický, Miloslav

TITLE:

AUTHOR:

Heat-resistant alloys of the FeCrAl-type

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 14, 1962, 3, abstract 14G20 ("Material. sb. 1960. Cast 2". Statni výzkumný ústav materiálu a technol. Praha, 1960, 137 - 166, Czechoslovakian; Rus-

sian and English summaries)

Castings were produced from 10 laboratory heats of ferro-chromealuminum alloys to investigate in detail their heat resistance. The most expedient alloys are those containing more than 17% chromium and some 5% aluminum. Alloys of this type show no tendency to spot oxidation and change their form only insignificantly during protracted annealing. The maximum utilization temperature of these alloys would be some 1,300°C. The mechanical properties were investigated in detail on forged rods 20 mm in diameter from the steel grades X 17 105 (Kh17Yu5) and X 24 05 (Kh24Yu5). A deficiency of these steels is their comparatively low plastic properties at 20°C which, in operation at high temperatures, sharply deteriorate. The effect of alloying elements to increase the mechanical properties

Card 1/2

#### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961410006-3

S/123/62/000/014/018/020

Heat-resistant alloys of the FeCrAl-type

of these alloys was studied. It was found that only manganese improves markedly the mechanical properties of the investigated alloys after protracted high-temperature annealing. Hitherto it was not possible to elucidate the causes of these changes. The investigation results will be checked under operation conditions on heating elements of electric resistance furnaces.

[Abstracter's note: Complete translation]

ιV

Card 2/2

z/020/63/000/001/003/005 D006/D102

AUTHORS:

Löbl, K., Vyklicky, M., Kabrhel, A., and Sustek, A.

TITLE:

Research on economical stainless austenitic-ferritic steels

for service in the chemical industry

PERIODICAL:

Energetika, no. 1, 1963, 54

TEXT: The paper is concerned with the problem of nickel saving in austenitic chrome-nickel steels used for production of welded machine equipment for the chemical industry. Using Soviet sources and results of own research, a total of four economical steels was developed in which nickel content was reduced practically to one half compared with the scarce steels they are to replace. The economical chrome-nickel austenitic-ferritic steels can replace the classic austenitic steels in most applications except for cases involving corrosive or active environments. Also, in designing machine equipment advantage can be taken of their better mechanical properties, especially higher yield point, as compared with the currently required chrome-nickel austenitic steels. Abstracter's note: This is a complete translation of an abstract from the Vyskumna sprava SVUMT (SVUMT Research Report) no. Z-61-1003, Prague, 1961.

VYKLICKY, M.; LOBL, K.; POTRUCEK, B.; KAERHEL, A.

Introduction of economical, stainless, fire-resistant steels and welding-on alloys into production. Energetika Cs 13 no.7: 386 Jl '63.

69268

18.1150

Z/034/60/000/04/002/028 E073/E535

AUTHORS: Vyklický, Miloslav, Engineer and Kabrhel, Adolf, Engineer TITLE: Manufacture and Properties of New Iron and Aluminium

Alloys

PERIODICAL: Hutnické listy, 1960, Nr 4, pp 260-266

ABSTRACT: In the first part of the paper the authors review data given in the literature, predominantly American, on the manufacture and properties of Fe-Al alloys Amainly those marketed under the trade names Alfenol, Thermenol and Ferral. In the latter part of the paper the authors give some results of their own experiments obtained with two heats containing about 9 and 13% Al and one heat containing about 16% Al and 4% Mo. The chemical composition of these alloys were:

Nr 1 0.03% C 8.81% A1 Nr 2 0.03% C 13.12% A1 Nr 3 0.04% C 16.56% A1 4.09% Mo

The material was cast into raw sand moulds to obtain rods of 8 and 20 mm dia. The chemical properties in the as-cast state and in the worked and heat treated states (Tables 5 and 6) were determined, and also the heat resistance and

69 26%

z/034/60/000/04/0c2/028 E073/E535

Manufacture and Properties of New Iron and Aluminium Alloys

The plots (Figs 1 to 3) are resistance to corrosion. based almost exclusively on literary data, the plot (Fig 9) weight increase as a function of time at elevated temperatures - is based on data obtained by the author of The results of the heat resistance tests can this paper. be summarised thus:

- 1. Fe-Al alloys containing 13% Al have a considerably better resistance to oxidation at 1150°C than the steel CSN N7 161; it can be seen from the plot (Fig 9) that the maximum permissible operating temperature of 1200°C specified by the manufacturer is excessive.
- 2. The resistance to oxidation of the alloy containing 16% Al and 4% Mo at 1000°C is somewhat lower than for the alloy containing 9% A1; this result seems to indicate that Mo has a harmful influence but this is not confirmed by data in the literature.
- 3. Alloys containing 13% Al can be used for temperatures up to 1150°C while an alloy containing 16% Al and 4% Mo can be used only up to 1000°C. These data do not agree with other published data which generally are more optimistic.

69268

Z/034/60/000/04/002/028 E073/E535

Manufacture and Properties of New Iron and Aluminium Alloys

The results of the corrosion resistance tests in various media of high corrosivity are entered in Table 7. This showed that the use of Fe-Al-Mo alloys should be limited to strong oxidation media or to media which are only slightly aggressive.

There are 9 figures, 7 tables and 24 references, 3 of which are Czech, 1 Soviet, 1 German and 19 English.

ASSOCIATION: SVÚMT, Prague SUBMITTED: June 23, 1959

Card 3/3

RESENTABLES DE LA TRACESTAR MANTE LE CONTRACTOR DE LA CON

z/003li/6li/000/002/01li7/01li7

AUTHOR: Vyklicky, M. (Engineer); Lobl, K. (Engineer); Kopal, V. (Engineer)

TITLE: Stainless austenitic-ferrite steel

SOURCE: Hutnicke listy, no. 2, 1964, 147

TOPIC TAGS: austenitic-ferritic steel, intercrystal corrosion, corrosionresistant steel

AESTRACT: The object of the invention is the forming and casting of austenitic-ferritic steels resistant to inter-crystal corrosion. These steels contain from 30 to 50 percent ferrite, the remainder is austenite and type M23C6 carbide. The ferrite contains from 22.5 to 25% chrome, and from 3 to 5% nickel, and the austenite contains from 19.5 to 22.5% chrome and from 5 to 8% nickel, with a total contant of carbon in the alloy of up to .25%, a silicon content up to 1%, a 6% manganese content by weight, and with the usual content of inclusions.

A close study of the properties of steel with two-phase austenitic-ferritic structure, either stabilized (about 0.5% titanium) or non-stabilized, was con-

Card 1/12

: 1

ducted with material having a carbon content of about 0.1%, a silicon content of about 0.5%, manganese, about 0.5%, chrome, about 20%, and nickel, about 4%. In some cases, these were alloyed with about 2% molybdonum. With heat treatment at were determined:

Type of Steal	oKt kp/mm2	oft kp/mm <sup>2</sup>	10 %	R mkg/cm <sup>2</sup>
Cr20nlli Cr20nllimo2 Cr20nllimo2T1	41.8 49.7 47.6 54.1	85.8 78.0 72.0 60.1	37.5 30.8 43.1 18.5	13.2 8.6 14.2 3.6

The nonstabilized steels have considerably better plastic properties than any stabilized steel alloyed in the same way.

ASSOCIATION: None

2/82

Card

Z/0032/64/014/007/0509/0517

AUTHOR: Vyklicky, M. (Engineer); Mericka, M., Kabrhel, A. (Engineer); Tuma, H., (Engineer); Kopal, V. (Engineer); Mursec, M. (Engineer); Dvorak, K. (Engineer); Valtr, V.

TITLE: Corrolion resistance of steel with a two-phase structure of the type Cr2lNi5

SOURCE: Strojirenstvi, v. 14, no. 7, 1964, 509-517

TOPIC TAGS: chromium steel, nickel steel, stainless steel, corrosion resistance, phase structure, alloy steel, alloying, phosphorus, titanium

ABSTRACT: Extensive experiments have been carried out to test corrosion resistance of newly introduced non-rusting steels with a two-phase structure of the type Cr2lNi5, which are mainly utilized in equipment of the chemical industry. The tests were carried out in the laboratory and confirmed by experiments in industrial plants, and included comparisons with classical steels which the new types

Card 1/5

were to replace. Laboratory tests of the usual type were carried out on 30 x 80 x 2 mm (and also 1 mm) samples and plant tests on 20 x x 100 x 2 mm samples. The results of the experiments are in agreement with corrosion theory. Increased phosphorus content lowers the corrosion resistance. The varying effect of titanium added to Cr21Ni5 and Cr18Ni9 in different acids is discussed. In general it is found that the optimal types of two-phase steels have a corrosion resistance similar to that of classical austenite steel while being more economical than the corrosion resistant CSN 17460 and 17471 steels, and exhibiting a much higher intercrystalline-corrosion resistance. It was found that in the food-processing industry Cr21Ni5Ti can almost fully replace CSN 17246 steel. Orig. art. has: 6 figures and 13 tables.

ASSOCIATION: SVUMT, Praque

SUBMITTED: 00

SUB CODE: MM

NR REF SOV: 001

ENCL: 03

OTHER: 006:

Card 2/5

### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3

ACCE	CCTON NO. ADI						
,	SSION NR: AP4	042272	* *		,		enclosure, c1
	Ocel 1 :-		ČSN 1725 Cr21N15T	1	C8N 42 2953 Cr21NI5	CBN 12 2028 Cr31 NISTI	Canazana
	vtrobek 2	Pleahy3	Tycel	Vfkorky 5	Odlitky 6		CSN 12 2013 CHINIANO2
TKI	mi] min.	1 40	1	-	CONLLY 6	Odlitky	Odlitky
			38	38	35	35	36
gri [kp/mi	m <sup>s</sup> ]	65-90	6590	65-90	6890	6590	
4 [%]	min.	23	20	20	18		08-90
¥[%]:	min.	. 35 -	35	35		12	18
R [mkp	/cm³] min.	8	8		. 15	. 10	15
Tyrdoei	нв ~ 7	-		8	. 4	2	4
· -					180-250	180-250	180—250
				•			
	•	•.					•
Card	3/5						
- th - F1							•

ACCESSTON	NR.	AP4042272

ENCLOSURE: 02

Svafitelnost 8	zaručená 14	zaručoná	zaručon4	zaručená
Doporučované elektrody	E 3 10	E 388 E 389	E 389	E 300 E 301
Tepelné zpracování) 10	9801020 °C	1000-1050 °C	980—1020 °O	980—1020 °C
Toplota použití (maximální) 11	250 °P	. 300 °C	300 ℃	300 •C
Nahrazovaná ocel ČSN	17246	422031 422032	422033	422942
Obrobitolnost 13	dobré 15-	dobrá	dobrá	dobrá

Card 4/5

ENCLOSURE: 03

Legend for Enc. 01: 1 - steel, 2 - article, 3 - plate, 4 - rod, 5 - forging, 6 - casging, 7 - hardness, 8 - weldability, 9 - electrodes used, 10 - heat treatment, 11 - maximum operating temperature, 12 - replaces CSN steel, 13 - workability, 14 - guaranteed, 15 - good

\*With suggested quenching in water or air. Steels with two-phase structure are more workable than conventional ppure austenitic steels.

Card 5/5

### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961410006-3

KIPE.		
	57437-65 EWP(w)/EPF(c)/EMA(d)/T/EWP(t)/EWP(z)/EMP(b) JD/HM/JG/WB. CCESSION NR: APSO17234	
	(Engineer) Krejci, R. (Engineer)	16
A	UIHOR: Vyklicky, H. (Engineer); Lobl, K. (Engineer); Krejci, R. (Engineer)	
7.	ITIE: Cast stainless Chronium-nickel steel	PARTY TO ALL
1	OURCE: Hutnicke listy, no. 7, 1915, 528	No.
7	OURCE: Authicke list, act steel, stainless steel, caromium nickel steel, stainless opromium nickel steel, cast stainless chromium nickel steel, cast stainless chromium nickel steel, cast stainless chromium nickel	I
		- 1
1 1		- 1
	ABSTRACT: This Author Certificate introduces a cost stainless chromium. As No. 100 kg. 18-21 Cr. 15-22 Ni. 2.0-4.0% Kg. containing 0.12% C, 4.0% Hg, up to 1.5% Si. 18-21% Cr. 15-22% Ni. 2.0-4.0% Kg.	Ī
- 1	A state of 0 12% C. 4.08 PM, WP W. A STATE OF OF The breading of	ĺ
		3
1	A 2_A SE V. respective tours we will have be at less 2.78. All will be at less 2.78.	
1	1:43-57 should be maintained, and the Mo content mint be active state. The steel	
	nas : Ferrite, which increases income au	
	nas : I ferrite, which increases into Vansitum refluce the .ast structure eliminates susceptibility to weld cracking Vansitum refluce the .ast structure eliminates susceptibility to weld cracking.	71
;	eliminates guacepoints	
	of the steel.	
Taga is	Card 1/2	-
-		多級 展